

## CLAIMS

We claim:

- 1           1.     A display system comprising at least one display panel, each said at least  
2 one panel comprising:  
3               a planar support member comprising a plurality of parallel first bars connected to  
4 a plurality of parallel second bars at intersections to form an open mesh having a front  
5 surface, a rear surface, and a plurality of openings extending between said surfaces,  
6 each said opening being framed by a pair of said first bars and a pair of said second  
7 bars;  
8               a plurality of lights at respective said intersections, each said light being visible  
9 from said front surface and having a pair of terminals; and  
10              a grid of mutually isolated wires located on said rear surface, each said wire  
11 being located on a respective said bar and being connected to a respective one of each  
12 said pair of terminals located at the intersections on the respective said bar.
- 1           2.     A display system as in claim 1 further comprising an aperture at each said  
2 intersection, each said aperture serving as a socket that receives a respective said light.
- 1           3.     A display system as in claim 1 wherein said lights are LED's.
- 1           4.     A display system as in claim 1 wherein said support member further  
2 comprises a support base surrounding each said intersection.
- 1           5.     A display system as in claim 4 further comprising a light-transmitting cap  
2 fixed to the front surface over each said support base.
- 1           6.     A display system as in claim 5 wherein each said cap is provided with  
2 arms which extend through said openings and engage said rear surface of said support  
3 member.

1           7.     A display system as in claim 1 wherein said bars are formed with channels  
2     that open on the rear surface and receive respective said wires therein.

1           8.     A display system as in claim 7 further comprising a plurality of covers fixed  
2     to the support member over respective said intersections.

1           9.     A display system as in claim 8 wherein each said cover has a central  
2     portion over the intersection and four arms that extend radially into the channels of the  
3     first and second bars that are connected at the intersection, each said cover being  
4     substantially flush with said rear surface.

1           10.    A display system as in claim 1 wherein said support member further  
2     comprises a circumferential frame surrounding said open mesh.

1           11.    A display system as in claim 10 wherein said frame is provided with  
2     channels which can carry said wires in bundles for distribution to said grid.

1           12.    A display system as in claim 10 further comprising a cross member  
2     extending across said circumferential frame between an adjacent pair of said first or  
3     second bars.

1           13.    A display system as in claim 1 wherein said rear surface of said support  
2     member is provided with recesses surrounding some of said openings, said panel  
3     further comprising floor members which are received in said recesses flush with said  
4     rear surface, and at least one electronic module mounted to said floor members.

1           14.    A display system as in claim 13 further comprising a light-transmitting cap  
2     fixed to the front surface over each said support base, wherein said cap is provided with  
3     arms which extend through said openings and engage said rear surface of said support

4 member, at least some of said arms engaging said floor members to hold said floor  
5 members in said recesses.

1 15. A display system as in claim 1 comprising a plurality of said display panels  
2 connected together serially.

1 16. A display system as in claim 15 wherein each said panel comprises at  
2 least one plug member for connecting to wires on an adjacent said light panel.

1 17. A display system as in claim 15 wherein at least two said panels are  
2 connected by hinges so that said panels can be folded together to form a stack.

1 18. A display system as in claim 17 wherein said hinges comprise at least one  
2 first hinge connecting a first pair of said panels so that said first pair of panels can be  
3 folded together with their front surfaces in mutually facing relation, and at least one  
4 second hinge connecting a second pair of said panels so that said second pair of panels  
5 can be folded together with their rear surfaces in mutually facing relation.

1 19. A display system as in claim 18 wherein each said first hinge is fixed to  
2 said front surfaces and designed so that said front surfaces are spaced apart when said  
3 panels of said first pair are folded together, and each said second hinge is fixed to said  
4 rear surfaces and designed so that said rear surfaces are spaced apart when said  
5 panels of said second pair are folded together.

1 20. A display system as in claim 15 wherein said panels are modular, at least  
2 some of said panels being substantially identical.

